INTERNATIONAL SEARCH REPORT

International application No.
PCT/IB02/04441

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A. CLASSIFICATION OF SUBJECT MATTER Int.Cl ⁷ H01S5/323, C30B29/38					
According to International Patent Classification (IPC) or to both national classification and IPC					
B. FIELDS	SEARCHED				
Minimum documentation searched (classification system followed by classification symbols) Int.Cl ⁷ H01S5/00-5/50, H01L33/00, C30B29/38					
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched					
Jitsuyo Shinan Koho 1922-1996 Toroku Jitsuyo Shinan Koho 1994-2003 Kokai Jitsuyo Shinan Koho 1971-2003 Jitsuyo Shinan Toroku Koho 1996-2003					
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) JICST FILE (JOIS)					
C. DOCUM	IENTS CONSIDERED TO BE RELEVANT				
Category*	Citation of document, with indication, where ap	propriate, of the relevant passages	Relevant to claim No.		
A	R. DWILINSKI et al., 'ON GAN AMMONOTHERMAL METHOD', Vol.90 POLONICA A, 1996, pages 763 t	, No.4, ACTA PHYSICA	1-11		
A	K. PAKULA et al., 'GROWTH OF CHEMICAL VAPOR DEPOSITION LAY CRYSTALS', Vol.88, No.5, ACT 1995, pages 861 to 864	ERS ON GAN SINGLE	1-11		
A	JP 08-250802 A (Fujitsu Ltd. 27 September, 1996 (27.09.96) Par. Nos. [0012] to [0025] (Family: none)		3,9-11		
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		· <u>,</u> .			
X Further	documents are listed in the continuation of Box C.	See patent family annex.			
Special categories of cited documents: document defining the general state of the art which is not		"T" later document published after the inte- priority date and not in conflict with the	e application but cited to		
	to be of particular relevance document but published on or after the international filing	understand the principle or theory und "X" document of particular relevance; the			
date "L" docume	ent which may throw doubts on priority claim(s) or which is	considered novel or cannot be considered step when the document is taken alone	red to involve an inventive		
cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other		considered to involve an inventive ster combined with one or more other such	when the document is documents, such		
means		"&" document member of the same patent			
		Date of mailing of the international search report 18 February, 2003 (18.02.03)			
Name and mailing address of the ISA/ Japanese Patent Office		Authorized officer			
•		Walankana Na			
Facsimile No.		Telephone No.			

Form PCT/ISA/210 (second sheet) (July 1998)

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PCT/IB02/04441

	tion). DOCUMENTS CONSIDERED TO BE RELEVANT	
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
Α .	Akito KURAMATA et al., "III-V zoku Chikkabutsu Handotai ni okeru Kiban no Kadai", Vol.65, No.9, Oyobutsuri, 1996, pages 936 to 940; Page 939, '3.3 Growth on Sic(1-100) Substrate'	3,10
A	EP 0716457 A2 (NICHIA CHEMICAL INDUSTRIES, LTD.), 12 June, 1996 (12.06.96), Full text; all drawings & JP 08-228025 A & CN 1132942 A & US 5777350 A	8-11
A	US 5780876 A1 (HATA), 14 July, 1998 (14.07.98), Full text; all drawings & US 5866440 A & JP 08-293643 A	8-11
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Box I Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)				
This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:				
Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely: .				
2. Claims Nos.: bccause they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:				
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).				
Box II Observations where unity of invention is lacking (Continuation of item 3 of first sheet)				
This International Searching Authority found multiple inventions in this international application, as follows: I. Claims 1-7 relate to a light emitting element structure using a single crystal cut out of a bulk single crystal formed by a super-critical ammonia soda process.				
II. Claims 8-11 relate to a light emitting element structure comprising a protection film formed on an In-containing active layer by using a super-critical ammonia soda process.				
These two groups of inventions are not considered to be a group of inventions so linked as to form a single general inventive concept.				
1. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.				
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.				
3. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:				
4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:				
Remark on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.				